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Production. The Poldarna Bp. plant in Kladno (N51/ 2 59), a part of the United Steel Works, produces various types of steel from which crankshafts (zajmovna hriadiela), springs and rod steel (tycova ocel) are manufactured at the plant.

Production Difficulties. Production at the Polidina Air plant has been hampered by a number of material shortages and other difficulties.

- a. Deliveries of scrap iron by Sberne sroviing, national corporation, have been irregular. At times there is a stockpile of scrap iron at the plant; at other times there is a great shortage. Formerly, considerable scrap iron was received from the USSR, consisting of war damaged material - blown bridges, wrecked tanks and the like. Currently, the origin of the scrap iron received at the plant is the United Steel Works in Chomutov (W51/ F 02) and in Senkov (W50/ L 54).
- b. Deliveries of raw materials necessary for production are very irregular. Raw materials are supplied by the Czechoslovak Steel Works, national corporation. (Iron ores and ferroalloys used at the plant are imported from the USSR. It was necessary to exclude type A1-12 steel from the production program because of the lack of necessary alloys.)
- c. Since deliveries of coal during the summer were inadequate, the stockpile of coal for winter use is low.
- d. Railroad transport for the plant has been a great problem, especially after a number of accidents discontinued railroad operations on the Kladno - Muzice (W51/ L 67) line.
- e. The breakdown of old production machinery has been one of the biggest factors in the failure of the plant to meet its production quotas.

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- f. New, unskilled factory personnel contribute to the production problems. As an example, a considerable percentage of products rejected are made of defective steel. The defects in the steel result from improper execution by workers of the various steps followed in the production of steel.
- g. Because of constant changes in production plans, some departments are overstocked with working material while others can not maintain a full working schedule because they are not kept supplied with enough material to work on. Often priority orders are received for goods which have not been included in the production plan with the result that production of certain items has to be stopped in order to satisfy the new orders.
- h. Production plans are constantly being worked on, yet quite often the actual production potential of the plant is disregarded in the planning.

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- i. Research. The plant has its own completely equipped laboratories for the chemical and mechanical testing of steel. The Research and Development Department is headed by Doc. Ing. Ladislav Jenicek who lives in Prague. There is also a Technical Department which is concerned with suggestions for improvement of production processes and which maintains constant contact with the Improvement Department and the patent representative of the plant, Dr. Hanus Srolka, whose office is in Prague. Experiments have recently been conducted with nitrate-hardened (nitridovane hridele) and gas-hardened (autogenne kalene hridele) crankshafts.* Gas-hardened crankshafts do not have as great a surface hardness, but have the advantage that they can be produced of ordinary construction steel.

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